

Work Order ID 102747

Friday, March 28, 2014 2:28:37 PM

102747

Page 1

Item ID: 647.9611

647.9611

Accept

N900040100

Setup Start

NS1

Revision ID:

B102747

Item Name: LH Aft Wiper Deflector

Stop

NS2

Start Date: 6/11/2013 Start Qty: 10.00

10

Cust Item ID:

Required Date: 6/11/2013 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals:

Process Plan: *CZ*

Date: 14/03/28

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

647.9600

110

0.00

110

Outsource5

Memo

0.00

Outsource process - Machining

ISSUE P/O: 23719

POSSIBLE SUPPLIER: ARCHER PRECISION

Certificate of conformaty required

E.T.M. industrial

imp 14/4/9

115

Receive & Inspect for Damage & Mat'l Certs

0.00

115

Packaging

Memo

0.00

Packaging

68-6
27
DAS

117

QC6- Inspect dimensions to drawing

0.00

117

QC

Memo

0.00

Quality Control

14/7/17

14/7/18 (10)

10

Work Order ID 102747

Friday, March 28, 2014 2:28:37 PM

102747

Page 2

Item ID: 647.9611

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: LH Aft Wiper Deflector

Start Date: 6/11/2013 Start Qty: 10.00

10

Cust Item ID:

Required Date: 6/11/2013 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

118

0.00

118

0.00

HandFinish

Memo

Hand Finishing

REMOVE ALL PART MARKINGS

120

0.00

120

0.00

Outsource4

Memo

Outsource process - Anodize

Issue P/O to ATG : _____

1- Black Anodize as per Dwg 647.9600

2- PRIME AS PER DWG, SEE NOTE #2

Certification of Conformity is required

130

0.00

130

0.00

Packaging

Memo

Packaging

Receive & Inspect for Damage & Mat'l Certs

N/A

CLN/07/17

Work Order ID 102747

Friday, March 28, 2014 2:28:37 PM

102747

Page 3

Item ID: 647.9611

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: LH Aft Wiper Deflector

Stop ***NS2***

Start Date: 6/11/2013 Start Qty: 10.00

10

Cust Item ID:

Required Date: 6/11/2013 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

140

QC5- Inspect part completeness to step on W/O

0.00

140

QC

Memo

0.00

Quality Control

170

Identify as per dwg & Stock Location

0.00

170

Packaging

Memo

0.00

Packaging

IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV

190

QC21- Final Inspection - Work Order Release

0.00

190

QC

Memo

0.00

Quality Control

CL 14/07/17

10x 14-7-18

14/7/21

14-7-21

DAS
26
9-89

Picklist Print

Friday, March 28, 2014 2:28:37 PM

Page 1

Work Order ID: 102747

102747

Parent Item: 647.9611

647 9611

Parent Item Name: LH Aft Wiper Deflector

Start Date: 6/11/2013

Required Date: 6/11/2013

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP REV:A NEW ISSUE 12-11-19 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.9611P		Purchased	No				Each	0.0000		10			
647 9611P									**				
LH Aft Wiper Deflector													
M7075T6B6.000X6.000		Purchased	No				f	28.9232		6.357895			
M7075T6B6 000X6 000									**				
7075-T6 BAR 6.000' X 6.000" (order in billets)													

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MAT001	28.9231583	
m126981	28.9231583	

Py 4/17/15 (10)

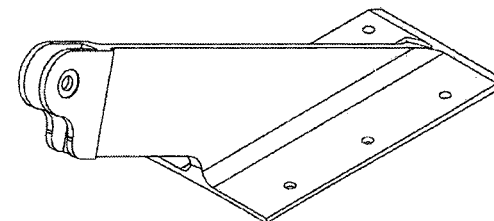
N
A

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
N/C	LAST PROTOTYPE RELEASE PR1	06/30/10	P. BRAVO
	INITIAL RELEASE		

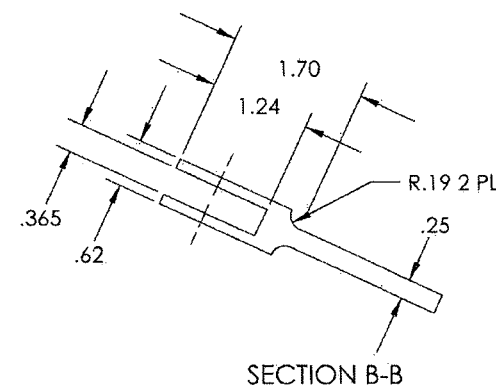
NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
- 2 FINISH: ANODIZE PER MIL STD-A-8625, TYPE III, CLASS 2, COLOR BLACK;
PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER;
PRIME IAW MIL-P-23377J TYPE I CLASS N.
- 3 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9610 NC LH FWD WIPER DEFLECTOR.SLDPR1, LAST MODIFIED 06/30/10.
- 4 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9611 NC LH AFT WIPER DEFLECTOR.SLDPR1, LAST MODIFIED 06/30/10.
- 5 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9612 NC RH FWD WIPER DEFLECTOR.SLDPR1, LAST MODIFIED 06/30/10.
- 6 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9613 NC RH AFT WIPER DEFLECTOR.SLDPR1, LAST MODIFIED 06/30/10.
- 7 DEBURR AND BREAK ALL SHARP EDGES.
- 8 IDENTIFY IAW MPP-120. LASER ETCH P/N REVISION, 12 PT. CENTURY GOTHIC.



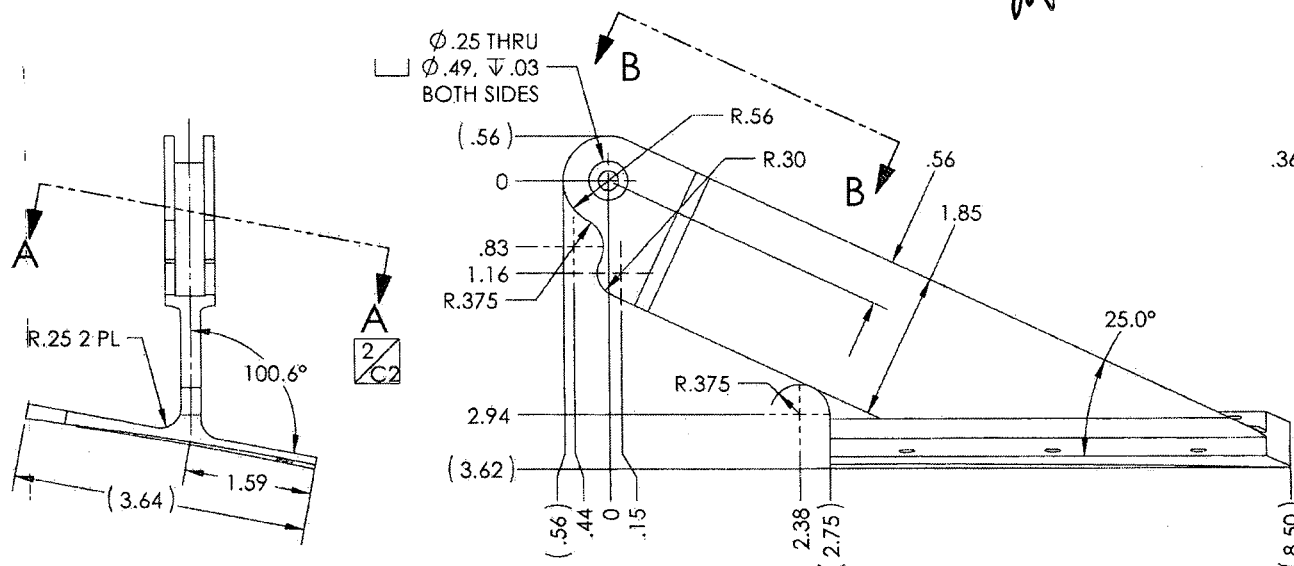
647.9610 SHOWN
647.9612 OPPOSITE

W/O 102247



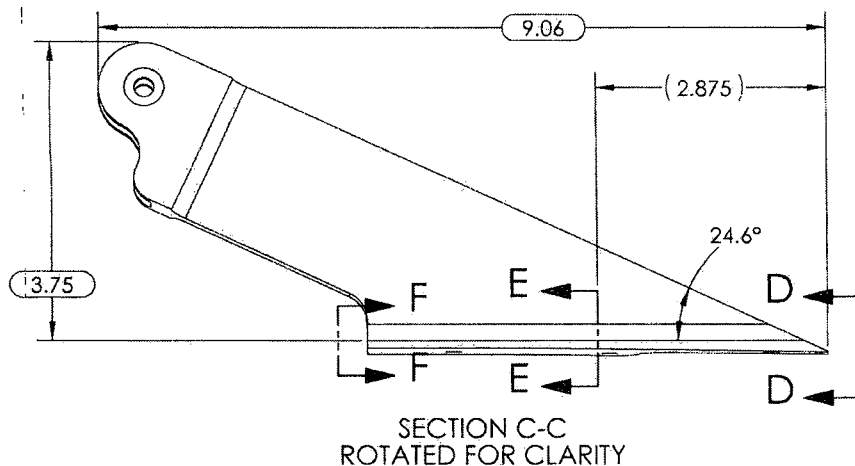
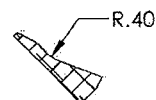
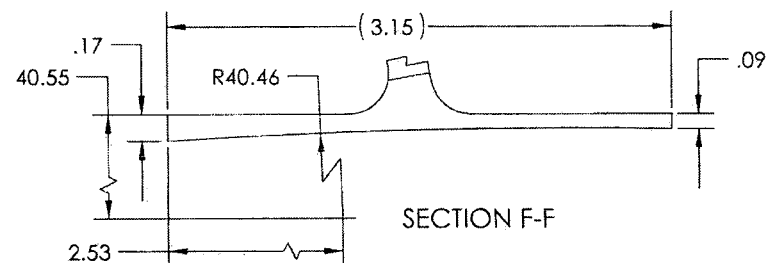
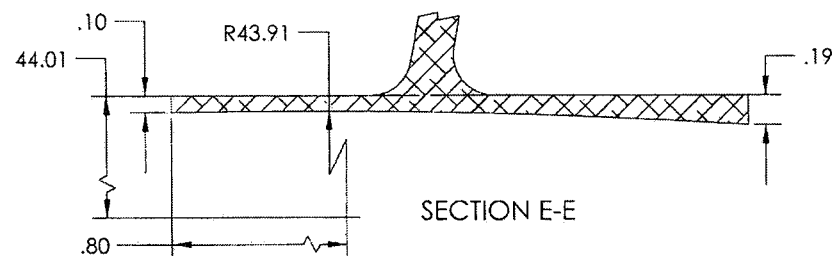
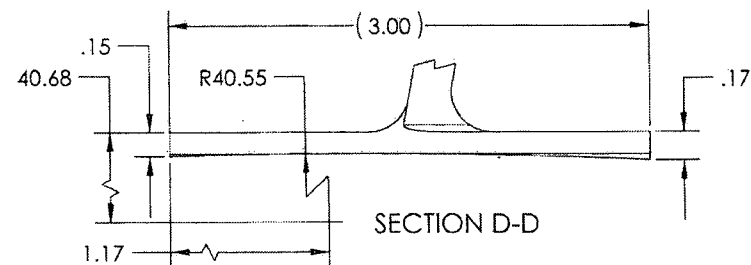
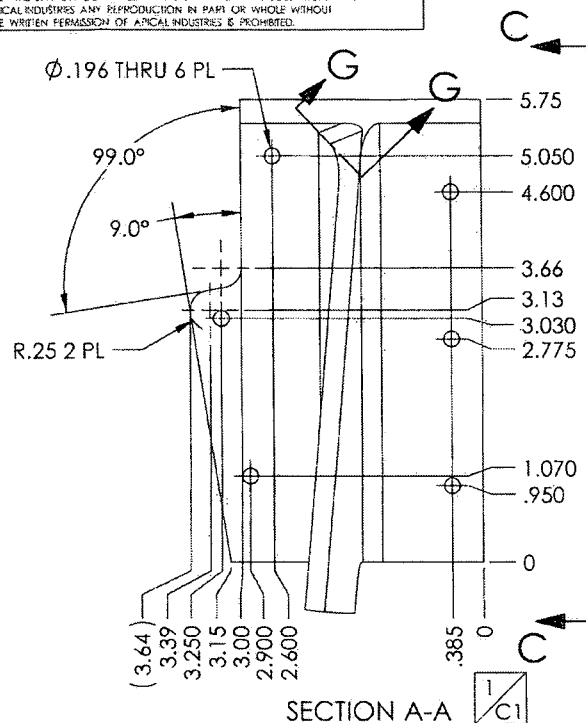
		647.9613	RH AFT WIPER DEFLECTOR			
		647.9612	RH FWD WIPER DEFLECTOR			
		647.9611	LH AFT WIPER DEFLECTOR			
1	1	647.9610	LH FWD WIPER DEFLECTOR			
	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.	

QTY	APICAL INDUSTRIES
NEXT ASSY (S)	2608 TEMPLE HEIGHTS DR.
647.8900	OCEANSIDE, CA. 92056-3512 (760)724-5300
	WIPER DEFLECTOR
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACES DECIMALS ±.03 3 PLACES DECIMALS ±.010 ANGLES ±.5°
	SHEET 1 OF 5



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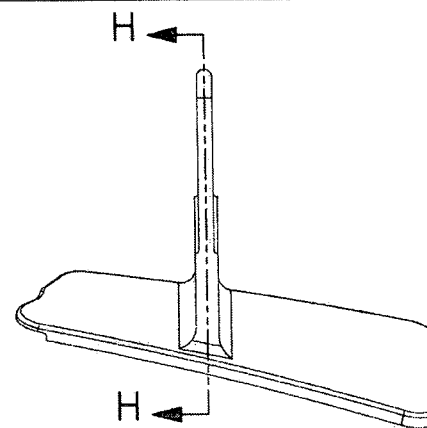
PENSIONS			
REV.	DESCRIPTION	DATE	APPROVED



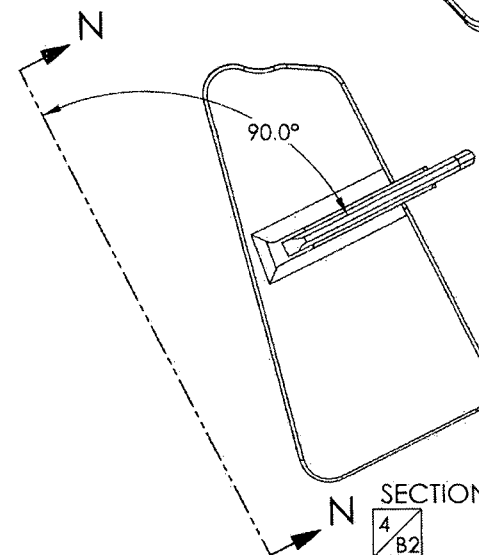
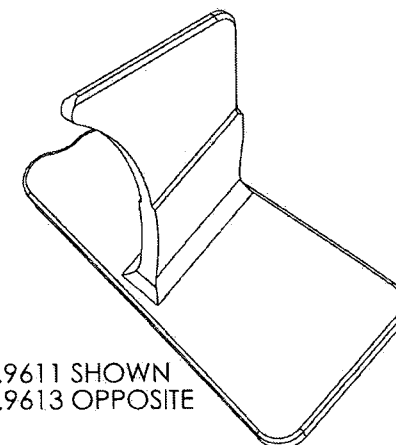
ORIGINAL DATE (MO-DA-YR)	APICAL INDUSTRIES		
DRAWN BY	CHECKER	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL			
CONTRACT NO.	WIPER DEFLECTOR		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1. PLACEMENTS ±.015 2. SPACES ±.010 3. HOLE SIZES ±.005	REV. 1	CAGE CODE 647.9600 SCALE NONE	REV. N/C SHEET 2 OF 5

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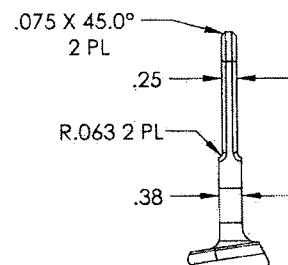
REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



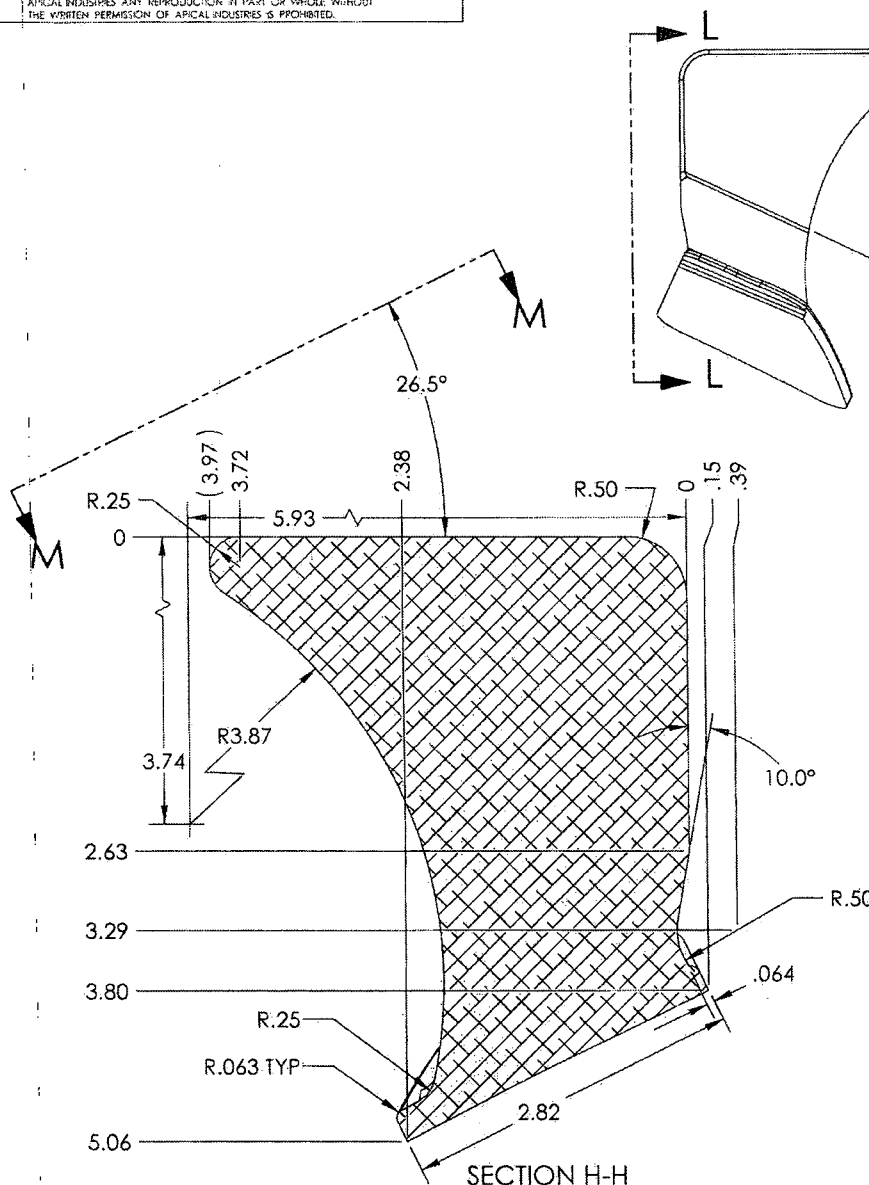
647.9611 SHOWN
647.9613 OPPOSITE



SECTION M-M
4
B2



SECTION L-L

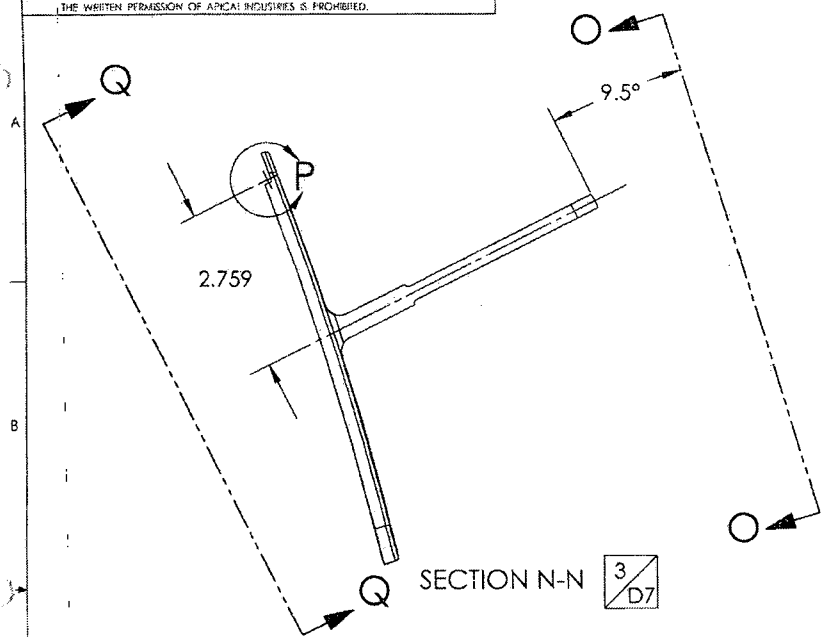


SECTION H-H

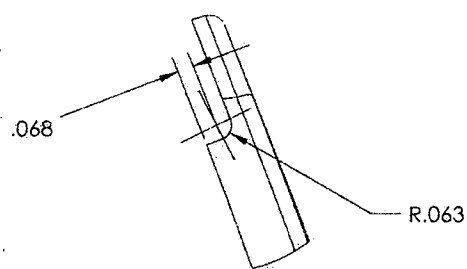
ORIGINAL DATE (MM-DD-YY)		APICAL INDUSTRIES	
DRAWN BY: [signature]		2608 TEMPLE HEIGHTS DR.	
DRAWING APPROVAL: [signature]		OCEANSIDE, CA. 92056-3512 (760)724-5300	
CONTRACT NO.		WIPER DEFLECTOR	
SIZE: B	GAGE CODE: 07M26	QWG. NO. 647.9600	REV. N/C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.015 2 PLACE DECIMALS ±.010 1 PLACE DECIMALS ±.020		SCALE: NONE	SHEET 3 OF 5

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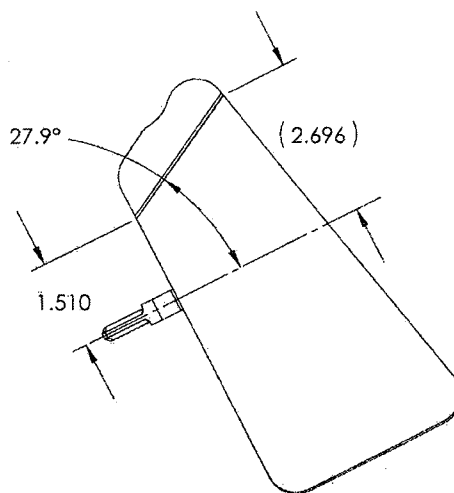
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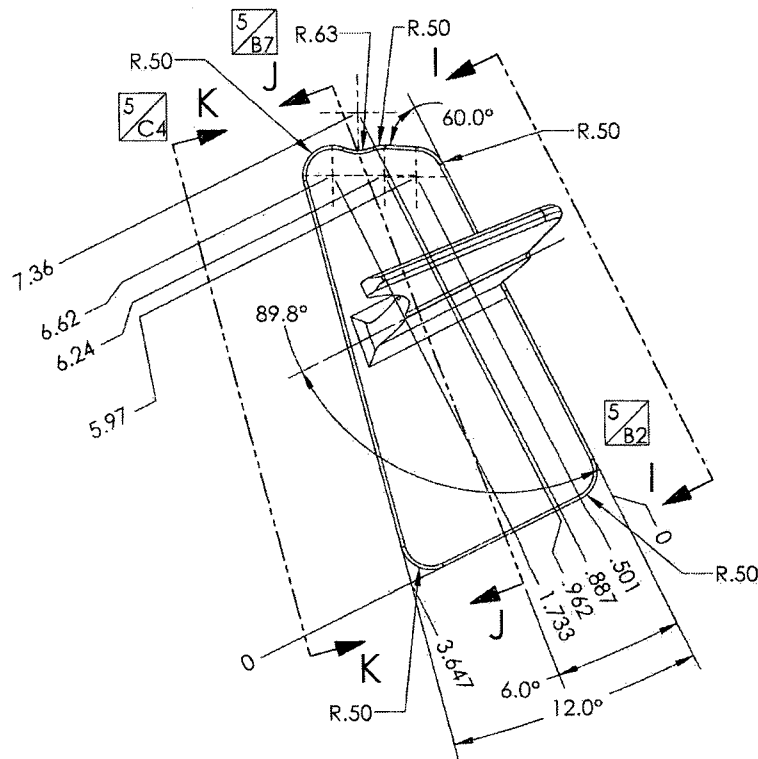
SECTION N-N 3
D7



DETAIL P



SECTION Q-Q

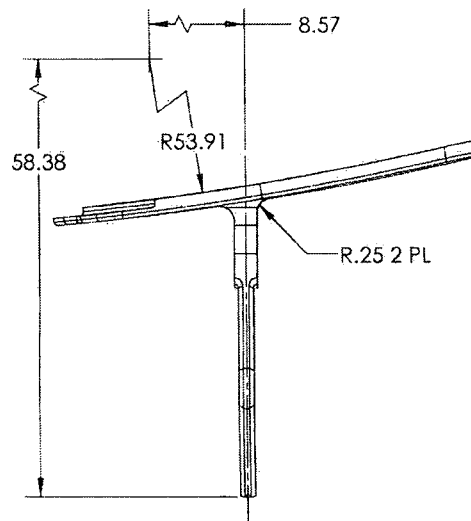


SECTION O-O

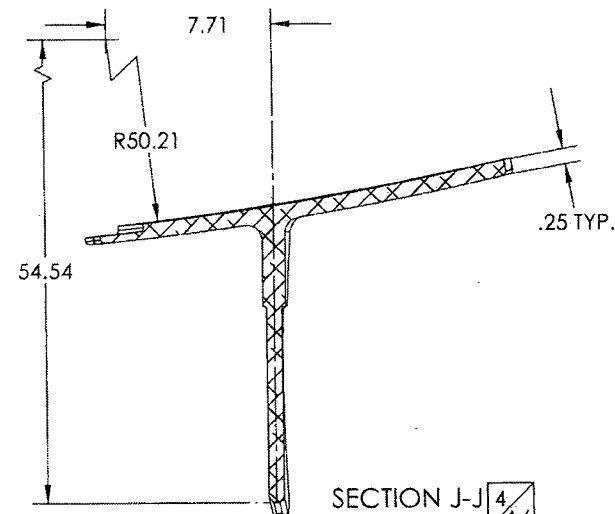
ORIGINAL DATE 2/24/2010		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWN BY	CHECKER	WIPER DEFLECTOR	
DRAWING APPROVAL		REV. N/C	
CONTRACT NO.		SCALE NONE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.005 3 PLACE DECIMALS ±.010 ANGLES ±.5°		SUP. CASE CODE B 07M26	QWG. NOS. 647.9600
		SHEET 4 OF 5	

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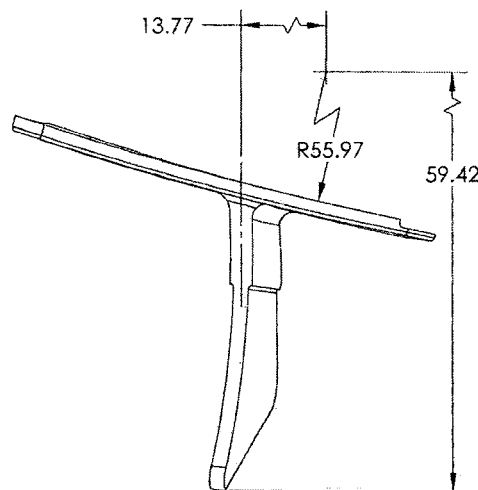
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



SECTION H-H 4
B7



SECTION J-J 4
A6



SECTION K-K 4
B5

ORIGINAL DATE: 06/27/15		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY: J. JACKSON	CHECKED BY: J. BRADY		
ENGINEERING APPROVAL: P. BRADY	DATE: 06/27/15	WIPER DEFLECTOR	
CONTRACT NO.:			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE: 07A26	QWL NO.: 647.9600
SCALE: NONE			REV. N/C
			SHEET 5 OF 5



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PO REPRINT

Purchase Order ID PO23719

Purchase Order Date 4/9/2014

PO Print Date 4/9/2014

Page Number 1 of 1

Order From :
E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610

VC-ETM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

RENFREW, ONTARIO K7V 4E7
CANADA

Contact Name
Vendor Phone 613-432-6136

Ship To Contact
Ship To Phone

Ship Via FedEx PI collect
Ship Acct

Buyer Michael Gregoire
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req. Qty/ Unit of Measure	PO Unit Price	Extended Price
3	647.9611P	LH Aft Wiper Deflector	5/21/2014 Yes 5/21/2014		10.00 Each	\$499.00	\$4,990.00
NOTE Manufacture as per drawing 647.9611 rev.NC							
Line Total:							\$4,990.00
4	647.9311P	Support Bracket	5/21/2014 Yes 5/21/2014		6.00 Each	\$295.00	\$1,770.00
NOTE To be manufactured as per drawing/647.9311 rev.NC B115449							
Line Total:							\$1,770.00
PO Total:							\$6,760.00

PO Instructions: Procurement Quality Clauses
A004 FAA-PMA /TSO
A005 RIGHT OF ENTRY
A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)
A016 PERSONNEL QUALIFICATION
A024 PROCESS CERTIFICATIONS
A025 CERTIFICATE OF CONFORMANCE
A04

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clause are an integral part of our AS9100

E.T.M. INDUSTRIES INC.
 310 HALL AVENUE
 BOX 610
 RENFREW, ON K7V 4E7
 Canada
 Ph: 613-432-6136
 Fax: 613-432-8212

Pack List

Number: 118503

Date: 15-Jul-14

To

DART AEROSPACE
 1270 ABERDEEN STREET
 HAWKESBURY, ON K6A 1K7
 Canada

Ship To

DART AEROSPACE
 1270 ABERDEEN STREET
 HAWKESBURY, ON K6A 1K7
 Canada

Ph: 613-632-5200

Fax: 613-632-5246

Ph: 613-632-5200

Fax: 613-632-5246

Terms	Ship Via
Net 30 days	

Quantity	Description	Rev: N/C
10 each	Part: 647.9611P L/H AFT WIPER DEFLECTOR *FAI REQ'D *PERSONNEL QUALIFICATION *PROCESS CERTIFICATION *C OF C REQ'D SO: 17190 **LOT #89799	Line: 001

PO: PO23719

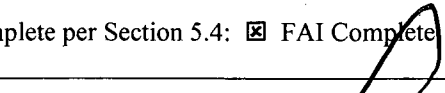

Line: 001

CERTIFICATE OF COMPLIANCE: "I hereby certify that the material described above is in conformance with applicable physical and dimensional specifications; that it was manufactured in accordance with applicable process specifications; and has been inspected to verify conformance to those specifications."

APPROVED SIGNATORY (QUALITY ASSURANCE)

AS9102 Revision A First Article Inspection

Form 1: Part Number Accountability

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.	
2) Also indicate if the FAI is complete per Section 5.4: <input checked="" type="checkbox"/> FAI Complete	<input type="checkbox"/> FAI Not Complete
19. Signature: MIKE YANTHA	20. Date: 6/20/2014
21. Reviewed by  	22. Date 15 JUL 14
23. Customer Approval	24. Date

ETM
AOC
8

AS9102 Revision A First Article Inspection

Form 2: Product Accountability – Raw Material, Specifications and Special Process(es),

Functional Testing

1. Part Number 647.9611P	2. Part Name L/H AFT WIPER DEFLECTOR	3. Serial Number N/A			4. FAI Report Number N/A
5. Material or Process – Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/N/A)	10. Certificate of Conformance Number
MATERIAL-ALUMINUM PLATE	7075-T651 PER AMS-QQ-A-250/12	N/A	N/A	N/A	CONSTELLUM CERT: 461711
PROCESS-ANODIZE	PER MIL STD-A-8625, TYPE III, CLASS 2, COLOR BLACK;	N/A	N/A	N/A	VERDUN CERT. #309105-00
PROCESS-PRETREAT	PRC-DESOTO PR-148 ADHESION PROMOTER	N/A	N/A	N/A	N/A
PROCESS-PRIME	IAW MIL-P-23377J TYPE 1 CLASS N.	N/A	N/A	N/A	RLD CERT. #77365
11. Functional Test Procedure Number	12. Acceptance report number, if applicable				
Not Applicable	Not Applicable				
13. Comments					
14. Prepared By			15. Date		
MIKE YANTHA			6/20/2014		

ETM Industries Inc

AS9102 Revision A First Article Inspection
Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Page 3 of 8

1. Part Number 647.9611P				2. Part Name L/H AFT WIPER DEFLECTOR		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
1	SHT 3 OF 5	N/A	R.25	.25	RADIUS GAUGE	N/A	N/A		
2	SHT 3 OF 5	N/A	3.97	3.972	CALIPERS	N/A	N/A		
3	SHT 3 OF 5	N/A	3.72	3.722	CALIPERS	N/A	N/A		
4	SHT 3 OF 5	N/A	5.93	5.9364	CMM	N/A	N/A		
5	SHT 3 OF 5	N/A	2.38	2.3812	CMM	N/A	N/A		
6	SHT 3 OF 5	N/A	26.5°	26.5°	REFERENCE	N/A	N/A		
7	SHT 3 OF 5	N/A	R.50	.500	RADIUS GAUGE	N/A	N/A		
8	SHT 3 OF 5	N/A	.15	.1543	CMM	N/A	N/A		
9	SHT 3 OF 5	N/A	.39	.3989	CMM	N/A	N/A		
10	SHT 3 OF 5	N/A	10.0°	9.99°	CMM	N/A	N/A		
11	SHT 3 OF 5	N/A	R.50	.500	RADIUS GAUGE	N/A	N/A		
12	SHT 3 OF 5	N/A	.064	.058	CALIPERS	N/A	N/A		
13	SHT 3 OF 5	N/A	2.82	2.822	CALIPERS	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**

13. Date **6/20/2014**

1. Part Number 647.9611P			2. Part Name L/H AFT WIPER DEFLECTOR			3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
14	SHT 3 OF 5	N/A	5.06	5.0632	CMM	N/A	N/A		
15	SHT 3 OF 5	N/A	R.063 TYP	.0625	RADIUS GAUGE	N/A	N/A		
16	SHT 3 OF 5	N/A	R.25	.2500	RADIUS GAUGE	N/A	N/A		
17	SHT 3 OF 5	N/A	3.80	3.8137	CMM	N/A	N/A		
18	SHT 3 OF 5	N/A	3.29	3.2915	CMM	N/A	N/A		
19	SHT 3 OF 5	N/A	2.63	2.6297	CMM	N/A	N/A		
20	SHT 3 OF 5	N/A	3.74	3.7386	CMM	N/A	N/A		
21	SHT 3 OF 5	N/A	R3.87	3.8749	CMM	N/A	N/A		
22	SHT 3 OF 5	N/A	25.0°	25°14'	OPTICAL COMPARATOR	N/A	N/A		
23	SHT 3 OF 5	N/A	.075	.0772	OPTICAL COMPARATOR	N/A	N/A		
24	SHT 3 OF 5	N/A	45.0°	45°02'	OPTICAL COMPARATOR	N/A	N/A		
25	SHT 3 OF 5	N/A	.25	.247	CALIPERS	N/A	N/A		
26	SHT 3 OF 5	N/A	R.063	.0625	RADIUS GAUGE	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**13. Date **6/20/2014**

ETM Industries IncAS9102 Revision A First Article Inspection
Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Page 5 of 8

1. Part Number 647.9611P				2. Part Name L/H AFT WIPER DEFLECTOR		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
27	SHT 3 OF 5	N/A	.38	.378	CALIPERS	N/A	N/A		
28	SHT 3 OF 5	N/A	90.0°	90°	REFERENCE	N/A	N/A		
29	SHT 4 OF 5	N/A	2.759	2.757	HEIGHT GAUGE AND INDICATOR	N/A	N/A		
30	SHT 4 OF 5	N/A	9.5°	9.5°	REFERENCE	N/A	N/A		
31	SHT 4 OF 5	N/A	.068	.062	CALIPERS	N/A	N/A		
32	SHT 4 OF 5	N/A	R.063	.0625	RADIUS GAUGE	N/A	N/A		
33	SHT 4 OF 5	N/A	27.9°	28.12	CMM	N/A	N/A		
34	SHT 4 OF 5	N/A	2.696	2.6989	CMM	N/A	N/A		
35	SHT 4 OF 5	N/A	1.510	1.5106	CMM	N/A	N/A		
36	SHT 4 OF 5	N/A	R.50	.500	RADIUS GAUGE	N/A	N/A		
37	SHT 4 OF 5	N/A	R.63	.625	RADIUS GAUGE	N/A	N/A		
38	SHT 4 OF 5	N/A	R.50	.500	RADIUS GAUGE	N/A	N/A		
39	SHT 4 OF 5	N/A	60.0°	60°04'	OPTICAL COMPARATOR	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By
MIKE YANTHA13. Date
6/20/2014

AS9102 Revision A First Article Inspection
Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Page 6 of 8

1. Part Number 647.9611P				2. Part Name L/H AFT WIPER DEFLECTOR		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
40	SHT 4 OF 5	N/A	R.50	.500	RADIUS GAUGE	N/A	N/A		
41	SHT 4 OF 5	N/A	R.50	.500	RADIUS GAUGE	N/A	N/A		
42	SHT 4 OF 5	N/A	.501	.4992	CMM	N/A	N/A		
43	SHT 4 OF 5	N/A	.887	.8859	CMM	N/A	N/A		
44	SHT 4 OF 5	N/A	.962	.9648	CMM	N/A	N/A		
45	SHT 4 OF 5	N/A	1.733	1.7330	CMM	N/A	N/A		
46	SHT 4 OF 5	N/A	12.0°	12.0°	REFERENCE	N/A	N/A		
47	SHT 4 OF 5	N/A	6.0°	6.0°	REFERENCE	N/A	N/A		
48	SHT 4 OF 5	N/A	3.647	6.6443	CMM	N/A	N/A		
49	SHT 4 OF 5	N/A	R.50	.500	RADUS GAUGE	N/A	N/A		
50	SHT 4 OF 5	NA/	89.8°	89.9°	CMM	N/A	N/A		
51	SHT 4 OF 5	N/A	5.97	5.9735	CMM	N/A	N/A		
52	SHT 4 OF 5	N/A	6.24	6.2324	CMM	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**13. Date **6/20/2014**

1. Part Number 647.9611P			2. Part Name L/H AFT WIPER DEFLECTOR			3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
53	SHT 4 OF 5	N/A	6.62	6.6223	CMM	N/A	N/A		
54	SHT 4 OF 5	N/A	7.36	7.3756	CMM	N/A	N/A		
55	SHT 1 OF 5	N/A	PART DIMENSIONS CONTROLLED BY CAD MODEL. FILE NAME: 647.9611 NC LH AFT WIPER DEFLECTOR.SLDPR T, LAST MODIFIED 6/30/10	ACCEPT	VERIFY	N/A	N/A		
56	SHT 1 OF 5	N/A	DEBURR AND BREAK ALL SHARP EDGES	ACCEPT	VERIFY	N/A	N/A		
57	SHT 1 OF 5	N/A	IDENTIFY IAW MPP-120. LASER ETCH PN/N REVISION. 12 PT CENTURY GOTHIC	N/A WAIVED BY CUSTOMER	N/A	N/A	N/A		
58	SHT 5 OF 5	N/A	58.38	58.3921	CMM	N/A	N/A		
59	SHT 5 OF 5	N/A	R53.91	53.9165	CMM	N/A	N/A		
60	SHT 5 OF 5	N/A	8.57	8.5789	CMM	N/A	N/A		
61	SHT 5 OF 5	N/A	R.25	.250	RADIUS GAUGE	N/A	N/A		
62	SHT 5 OF 5	N/A	13.77	13.7841	CMM	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By

MIKE YANTHA

13. Date

6/20/2014

1. Part Number 647.9611P				2. Part Name L/H AFT WIPER DEFLECTOR		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
63	SHT 5 OF 5	N/A	R55.97	R55.9803	CMM	N/A	N/A		
64	SHT 5 OF 5	N/A	59.42	59.4302	CMM	N/A	N/A		
65	SHT 5 OF 5	N/A	54.54	54.5423	CMM	N/A	N/A		
66	SHT 5 OF 5	N/A	R50.21	50.2154	CMM	N/A	N/A		
67	SHT 5 OF 5	N/A	7.71	7.7135	CMM	N/A	N/A		
68	SHT 5 OF 5	N/A	.25 TYP	.252	CMM	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**13. Date **6/20/2014**

B I L L O F L A D I N G

No: PEC 882204

Ship From:
 THYSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 13Jun14 at 15:05 From PFW
 Probill T166788 19425496
 Via MANITOULIN TRA
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20132)
 E T M INDUSTRIES INC
 P O BOX 610
 RENFREW, ON K7V 4E7

Ship To: (1)
 E T M INDUSTRIES INC
 310 HALL AVENUE
 RENFREW, ON K7V 2S5
 Tel: 613-432-6136 Fax: 613-432-8212

B I L L O F L A D I N G

1. Our Order PEC-690886- 1 Your PO # 99077

Rel #

CofC

MTR

2. MINIMUM LATE 7075 T651
 0.0000" X 7.5000"

Heat Number
 461711

Tag No
 302435

Quantity
 4.15 SFT

PCS
 11

Wt LBS
 343

Tags
 1

PCS
 11

LBS
 343

TOTAL:

DO NOT CHARGE ENERGY SURCHARGE (06-2011)
 SEND MTR'S * GENERIC COFC'S WITH EVERY SHIPMENT
 MUST INCLUDE THE FOLLOWING INFORMATION:
 COMPANY NAME
 SALES ORDER #
 P.O.#
 ITEM#
 AND DESCRIPTION OF PRODUCT & SPECIFICATIONS
 (ie. ASTM SPECS)

** DO NOT SHIP MATERIAL WITHOUT MTR'S & CofC'S * >
 > CLOSE AT NOON ON FRIDAYS <

TOTAL 1 SKID G.W. 365 LBS

*CUSTOMER PICK-UP HRS AT THYSENKRUPP MATERIALS NA
 CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
 RAPPORTEES IMMEDIATEMENT
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
 RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

RECU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
 TDC/ST JV/HST # 140223934 RT0001

DATE

B I L L O F L A D I N G

No: PEC 882204

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 13Jun14 at 15:05 From PFW
Probill T166788 19425496
Via MANITOULIN TRA
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20132)
E T M INDUSTRIES INC

Ship To: (1)
E T M INDUSTRIES INC

B I L L O F L A D I N G

*** TEL. 800-926-2600 ***

WE STOCK STAINLESS STEEL *
PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

**PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
DDED TO EVERY ORDER.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
RAPPORTEES IMMEDIATEMENT
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

DATE

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
Q/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001



CERTIFICATE OF COMPLIANCE

Date: JUNE 13, 2014

Customer: E T M INDUSTRIES INC

Whom It May Concern:

RE: Your PO 99077
Our B/L -882204
Work order No: 690886

Items: 1 PART NUMBER 89799
ALUMINUM PLATE 7075 T651
5.50" X 7.25" X 7.50" 11 PCS @ 343 LBS
HEAT NUMBER 461711

We certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state. For MSDS sheets go to www.copperandbrass.com/msds or call 248-233-5682.

We hereby certify that the material supplied against the above order complies with the following specifications: ASTM B209

Sincerely,

YOLANDE

ThyssenKrupp Materials North America



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

48086

COPPER&BR 791208 1800 INCLUSION SERIAL#: 20140406791208 PAGE 1 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 5400213322				Constellium ORDER NO. 110-513741		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA <i>Steve Good</i> Steve Good - Laboratory Manager	
ALLOY 7075	CLAD. 00	TEMPER T651	GUAGE 5.53000	WIDTH 60.500	LENGTH 144.500		
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL							
CUSTOMER SPECIFICATION AMS-QQ-A-250/12							
PART NUMBER ALFLR03241		B/L NUMBER 791200		DATE SHIPPED 04/08/14			
WEIGHT SHIPPED 10,110		NO. OF PIECES 2		GOVT. CONTRACT NO.			

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
161711	LT	2	***** T651 65.7	69.9	49.5	55.4	***** 11.5	12.0											
All material contained in lot 161711 was cast and manufactured in the USA.																			

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			

ASTM B209-10 AND AMS 4045K PROP: MN UTS = 60, YS = 43, MN ELONG = 5%																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
	ALUMINUM REMAINDER																		

P-860-155D Revised: 02.2014

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403201705

CstAr

CstOr 258978

Wgt.: 343 LB

Date 06/10/2014



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC



COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544



COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

48086

COPPER&BR 791208 1800 INCLUSION SERIAL#: 20140406791208 PAGE 2 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 5400213322				Constellium ORDER NO. 110-513741		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA Steve Good - Laboratory Manager	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 5.53000	WIDTH 60.500	LENGTH 144.500		
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL							
CUSTOMER SPECIFICATION AMS-QQ-A-250/12							
PART NUMBER ALFLR03241		B/L NUMBER 791200		DATE SHIPPED 04/08/14			
WEIGHT SHIPPED 10,110		NO. OF PIECES 2		GOVT. CONTRACT NO.			

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
THIS MATERIAL IS OVER 4" IN THICKNESS AND THEREFORE EXCEEDS THE SIZE RANGE OF ALL APPLICABLE SPECIFICATIONS. SINCE THE MAJORITY OF METAL IS SUPPLIED WITHIN THE SIZE RANGE OF APPLICABLE SPECIFICATIONS, OUR CONCERN IS THAT MATERIAL MAY BE INADVERTENTLY USED IN APPLICATIONS WHICH REQUIRE CHARACTERISTICS EXPECTED OF THICKNESS 4" AND BELOW. FOR THE MATERIAL DESCRIBED, STRENGTH AND OTHER CHARACTERISTICS CAN BE EXPECTED TO DIFFER FROM THOSE TYPICAL OF MATERIAL IN THE NORMAL SIZE RANGE. THIS MATERIAL SHOULD NOT BE USED IN APPLICATIONS WHICH REQUIRE CHARACTERISTICS EXPECTED IN THE NORMAL SIZE RANGE; THEREFORE YOUR CAREFUL CONTROL IS NECESSARY TO PREVENT MISAPPLICATION.																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
	ALUMINUM REMAINDER																		

P-860-155D Revised: 02.2014

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403201705

CstAr

CstOr 258978

Wgt.: 343 LB

Date 06/10/2014

COPPER AND BRASS SALES**MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7****"WARNING"**

SMALL CHIPS,FINE TURNINGS AND DUST MAY IGNITE READILY.EXPLOSION POTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR,CHIPS,FINES,DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE.KEEP AWAY FROM IGNITION SOURCE.USE EXPLOSION-PROOF VENTILATION.KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD),A SERIOUS CHRONIC LUNG DISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD;OVER TIME CBD AND CANCER CAN BE FATAL,TARGET ORGAN IS PRIMARILY THE LUNG.INHALING LARGE AMOUNTS OF COPPER,MAGNESIUM OXIDE,MANGANESE OXIDE,AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS.CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN;AND SKIN,TEETH,AND HAIR DISCOLORATION.CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUS MEMBRANES OF THE EYES,NOSE,AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS.INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT AND CAUSE NASAL AND/OR LUNG CANCER.NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF IN THE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN.(CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT.WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* Aluminum, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone 248-233-5600, or visit our web site @ www.copperandbrass.com.

**Anodisation Verdun Inc.**

AS 9100:2004

info@verdunanodizing.com

Verdun Anodizing Inc.

ISO 9001:2000

Tel: (514) 761-4531

3971, ave Verdun, Verdun (Quebec) H4G 1L1

Certified

Fax: (514) 769-4731

CERTIFICATE OF SUB-CONTRACTORC
U
S
T
O
M
E
R**E.T.M. INDUSTRIES INC.**

310 HALL AVENUE

BOX 610

RENFREW

Ontario K7V 4E7

ETM

S
H
I
P

T
O**E.T.M. INDUSTRIES INC.**

310 HALL AVENUE

BOX 610

RENFREW

Ontario K7V 4E7

ETM

Customer Order No.	Order Date	Process Date	Certificate No.
99180	07/07/14	10/07/14	309105-00

PROCESS: MIL A-8625F1 TY III C1 2 NOIR No Seal

Item No.	Quantity	Description	Serial #
001	10.0	647.9611P LINE:001 L/H AFT WIPER DEFLECTOR REV.N/C JOB:89799 DUE:30 JUN.14	MAT:7075-T651

We hereby certify that the parts described above and furnished by **E.T.M. INDUSTRIES INC.** have been treated in accordance with the relevant specifications, PO requirements and that no substitution of materials has been made.



Inspector:

Verdun Anodizing Inc.



- POWDER COATING
- ELECTROSTATIC ON-SITE
- BAKED ENAMEL FINISHES

Industries Ltd.

4210 ALBION ROAD
OTTAWA, ONTARIO K1T 3W2

TELEPHONE: (613) 822-4000
FAX: (613) 822-3303

EMAIL: rld@magma.ca
WEB: www.rldindustries.com

LETTER OF COMPLIANCE

E.T.M. Industries Inc.
P.O. Box 610, 266 Hall Avenue East
Renfrew, Ontario
K7V 4E7

Purchase Order #: 99301

RLD W/O #: 77365

DATE: July 15, 2014

PART:

Quantity	Part Number	Description
6	647.9311P	SUPPORT BRACKET
10	647.9611P	L/H AFT WIPER DEFLECTOR

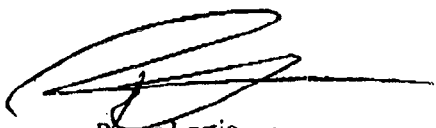
SPECIFICATION:

Parts were painted July 14, 2014 as follows:

Primer: 02GN084, DEFT, Aqua Green, Batch # 99460, MILS 1 DFT and Expiry Date Oct./15

Prime per IAW MIL-P-23377J, Type I, Class N.

Parts also passed a non-destructive tape test.


Roger Lortie
Purchaser/Estimator/Quality Assurance
RLD INDUSTRIES LTD.



07 July 2014

Mr. Pat Smith
Director of Quality
DART Aerospace Hawkesbury
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Mr. Smith:

The purpose of this letter is to provide no objection to an alternate means of finishing the metallic parts used as part of the Cable Cutters Kits designed under various STCs for the Airbus Helicopters AS350, EC135, EC145, Bell 206, 407, 212, 412 and AgustaWestland AW119 and AW139.

Many of the drawings currently call for a PRC-DESOTO PR-148 adhesion promoter prior to applying primer. Given the in-house testing conducted by DART Hawkesbury to determine the effectiveness of the adhesion promoter, we have no objection to removing the adhesion promoter from the finishing requirements listed on each drawing.

Feel free to reach out to me with any questions.

Regards,

A handwritten signature in black ink, appearing to read "P. Bravo", with a stylized flourish at the end.

Pablo Bravo
Director of Engineering
DART Aerospace Oceanside (Apical Industries, Inc.)
(760) 724-5300
pbravo@dartaero.com

Jeff O'Connor

From: Barry Dupuis <bdupuis@etmindustries.on.ca>
Sent: Wednesday, January 15, 2014 2:24 PM
To: joconnor@etmindustries.on.ca
Cc: Bruce Rodger
Subject: FW: PO22172

Fyi on engraving on DART parts

Barry Dupuis

**Production Manager
CNC Dept**

ETM INDUSTRIES INC.

310 Hall Avenue East • P.O. Box 610
Bentley • Ontario • Canada • K7V 4E7

TOLL FREE: 1-800-563-2864

Telephone: (613) 432-6136

Facsimile: (613) 432-8212

Registered • (D08001-2000 and A59100-200)

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From: Michael Gregoire [mailto:mgregoire@dartaero.com]
Sent: Wednesday, January 15, 2014 1:06 PM
To: Don Griesse
Cc: Barry Dupuis; Dennis Huckabone; John Doering
Subject: RE: PO22172

Hello Don,
Leave that part of the process out, we will pot mark them here.
Mike

From: Don Griesse [mailto:dgriesse@etmindustries.on.ca]
Sent: Wednesday, January 15, 2014 11:08 AM
To: Michael Gregoire
Cc: Barry Dupuis; Dennis Huckabone; John Doering
Subject: FW: PO22172

Good morning Mike,

Have a question to ask about your parts, the drawing requests "Laser Etch" for the part number would we be able to machine it into the part? Please advise and thanks in advance.

Donnie

From: Michael Gregoire [<mailto:mgregoire@dartaero.com>]
Sent: Monday, January 13, 2014 3:03 PM
To: Don Griesse
Subject: RE: PO22172

From: Don Griesse [<mailto:dgriesse@etmindustries.on.ca>]
Sent: Monday, January 13, 2014 1:51 PM
To: Michael Gregoire
Cc: 'Barry Dupuis'; Dennis Huckabone
Subject: RE: PO22172

Good afternoon Mike,

As per our phone call we are week+ behind in that we had a spindle issue on our 5-Axis where these are to run just before Christmas and we're still catching up. We could have the 1st FAI parts complete and ship to your on or before 1/24 and the balance 2 weeks after approval of the FAI's. Thanks again and let us know if this will work for you.

Donnie

From: Michael Gregoire [<mailto:mgregoire@dartaero.com>]
Sent: Wednesday, November 27, 2013 9:46 AM
To: Don Griesse
Cc: Barry Dupuis
Subject: RE: PO22172

Donnie,
It was shipped out to you yesterday, you should see it today.
Mike

From: Don Griesse [<mailto:dgriesse@etmindustries.on.ca>]
Sent: Wednesday, November 27, 2013 9:45 AM
To: Michael Gregoire
Cc: Barry Dupuis
Subject: RE: PO22172

Thanks Mike, when might we be seeing material?

Donnie

From: Michael Gregoire [<mailto:mgregoire@dartaero.com>]
Sent: Wednesday, November 27, 2013 9:31 AM
To: Don Griesse
Subject: RE: PO22172

Morning Donnie,
Yes, the silly season is upon us. All deliveries at this time of year are just a suggestion. The changes are made.
Thanks,
Mike

From: Don Griesse [<mailto:dgriesse@etmindustries.on.ca>]
Sent: Wednesday, November 27, 2013 8:38 AM
To: Michael Gregoire
Cc: Barry Dupuis
Subject: RE: PO22172

Hi Mike,

Just confirming your P/O# PO22172, pricing is fine but as we are closed for the Christmas holiday could the delivery date be changed to 1/17/14. Please advise and thanks in advance.

Donnie

From: Don Griesse [<mailto:dgriesse@etmindustries.on.ca>]
Sent: Wednesday, November 27, 2013 8:12 AM
To: Mike Gregoire
Subject: FW: PO22172

Good morning Mike,

I received your Voicemail last night and thank you for clearing up my question, all good. I will confirm P/O later this morning after our morning review meeting. Thanks again and have a great day.

Donnie

From: Don Griesse [<mailto:dgriesse@etmindustries.on.ca>]
Sent: Tuesday, November 26, 2013 2:53 PM
To: Mike Gregoire
Cc: John Robertson; Barry Dupuis
Subject: RE: PO22172

Good afternoon Mike,

P/O# PO22172 has been received and we will confirm after review of pricing and delivery. Thanks and have a great day.

ETM will be closed on Dec.24th at 12:00 pm and will open on Jan. 6th 2014

Merry Christmas

Donnie Griesse

Production Manager-Plastic Molding

E.T.M. Industries Inc.

Ph:(613)432-6136

Fx:(613)432-8212

1-800-563-2854

Email: dgriesse@etmindutries.on.ca

Web: www.etmindustries.on.ca

ISO 9001-2000/AS9100

From: John Robertson [mailto:jrobertson@etmindustries.on.ca]
Sent: Monday, November 25, 2013 1:34 PM
To: bdupuis@etmindustries.on.ca; Don Griese
Subject: FW: PO22172

Please confirm to Mike.

Thanks,

John Robertson

General Manager

E.T.M. Industries Inc.

Ph:(613)432-6136 x-244

Fx:(613)432-8212

Cell: (613)570-8086

1-800-563-2854

Email: jrobertson@etmindustries.on.ca

Web: www.etmindustries.on.ca <<http://www.etmindustries.on.ca/>>

ISO 9001:2008 & AS9100C Certified

From: Michael Gregoire [mailto:mgregoire@dartaero.com]
Sent: Monday, November 25, 2013 1:15 PM
To: John Robertson
Subject: PO22172

Hello John,

Here is a copy of the first purchase order. We will be sending the raw material today or tomorrow. The first article inspection will be required prior to fulfilling the rest of the order.

Regards,

Mike

From: John Robertson [mailto:jrobertson@etmindustries.on.ca]
Sent: Friday, November 22, 2013 11:14 AM
To: Michael Gregoire
Subject: ETM information, Dart NDA, Survey and credit information

Hi Mike,

I filled in the information you requested NDA, Survey, Certificate and credit info. I have attached a few more items as well.

Any questions or concerns or need any more information let me know how ETM can help.

Regards,

John Robertson

General Manager

E.T.M. Industries Inc.

Ph:(613)432-6136 x-244

Fx:(613)432-8212

Cell: (613)570-8086

1-800-563-2854

Email: jrobertson@etmindustries.on.ca

Web: www.etmindustries.on.ca <<http://www.etmindustries.on.ca/>>

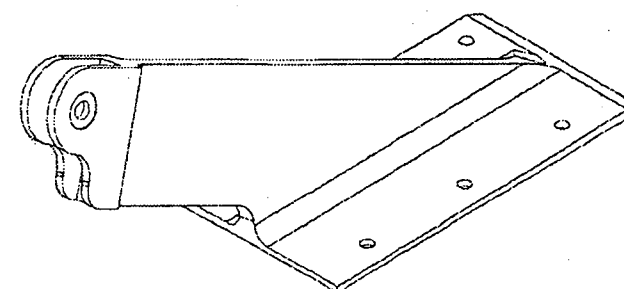
ISO 9001:2008 & AS9100C Certified

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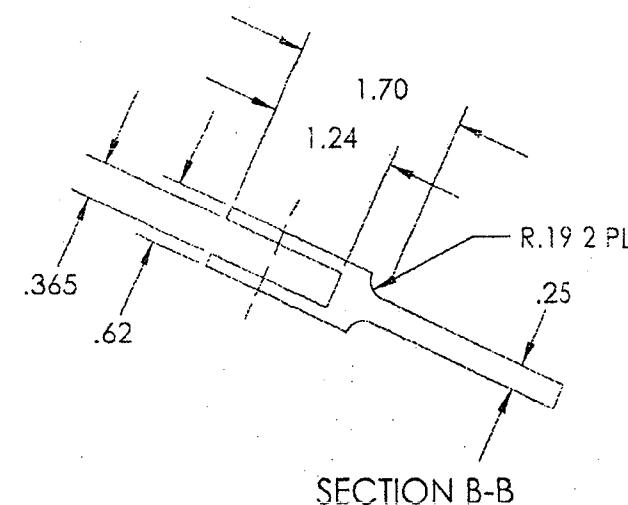
NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
- 2 FINISH: ANODIZE PER MIL STD-A-8625, TYPE III, CLASS 2, COLOR BLACK; PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER; PRIME IAW MIL-P-23377J TYPE I CLASS N.
- 3 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9610 NC LH FWD WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 06/30/10.
- 4 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9611 NC LH AFT WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 06/30/10.
- 5 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9612 NC RH FWD WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 06/30/10.
- 6 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9613 NC RH AFT WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 06/30/10.
- 7 DEBURR AND BREAK ALL SHARP EDGES.
- 8 IDENTIFY IAW MPP-120. LASER ETCH P/N REVISION, 12 PT. CENTURY GOTHIC.

REV	DESCRIPTION	DATE	APPROVED
1	LAST MODIFICATION RELEASE PRT	06-30-10	P. BRAND
2	INITIAL RELEASE		



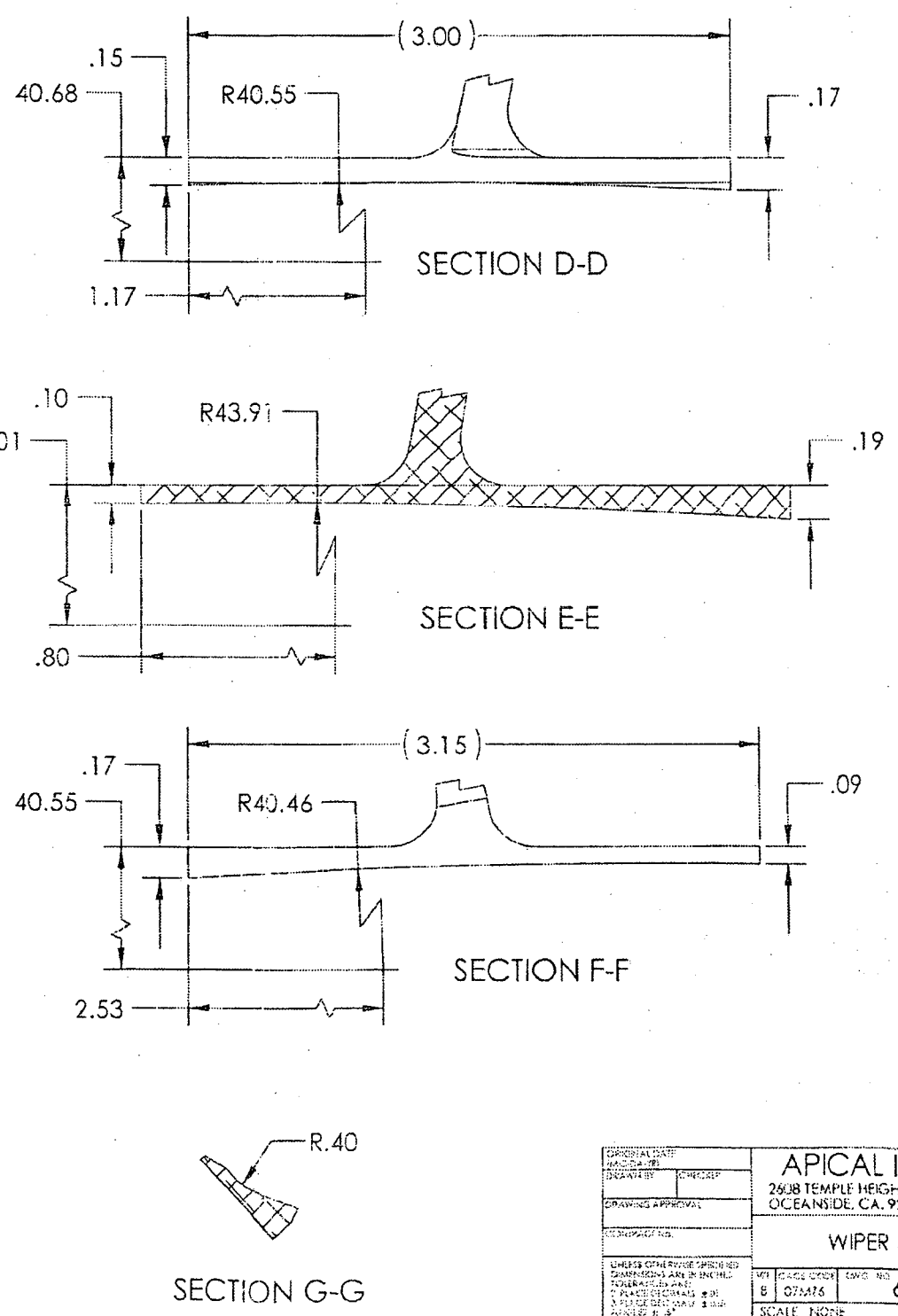
647.9610 SHOWN
647.9612 OPPOSITE



647.9613	RH AFT WIPER DEFLECTOR	1	2	3
647.9612	RH FWD WIPER DEFLECTOR	1	2	3
647.9611	LH AFT WIPER DEFLECTOR	1	2	3
647.9610	LH FWD WIPER DEFLECTOR	1	2	3
QTY	PART #	DESCRIPTION	MAT'L	SPEC.
1	647.9600	WIPER DEFLECTOR		
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300				
WIPER DEFLECTOR				
SCALE: NONE				
SHEET 1 OF 5				

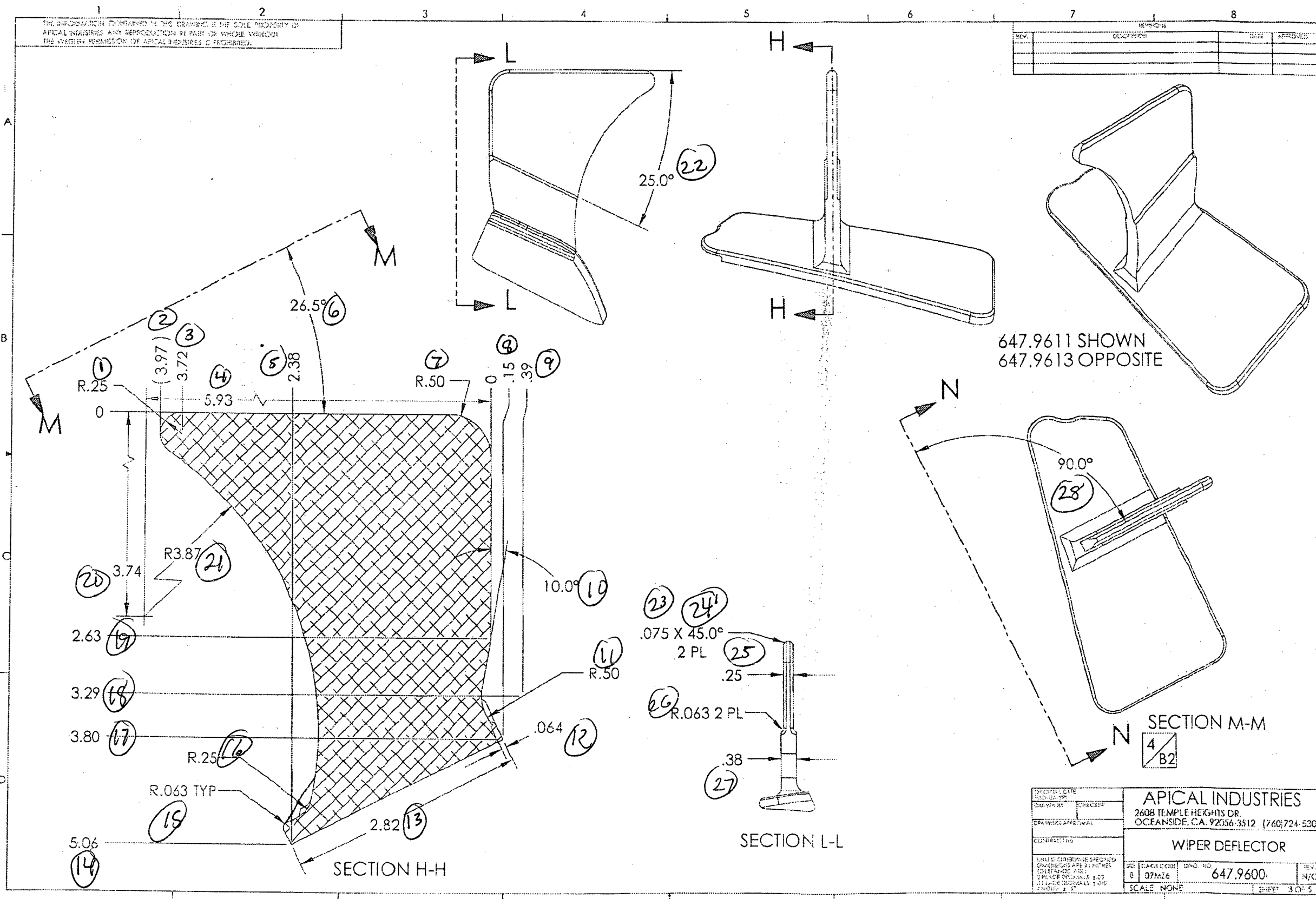
RECEIVED
Apr. 16/14

REVIEWS			
REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE MATERIAL DRAWN BY CHECKED BY	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 774-5300			
DRAWING APPROVAL				
DESIGNATED NO.	WIPER DEFLECTOR			
CHECKS CONFORMANCE WITH STANDARD AND IN SPECIFIC TOLERANCES ARE: 1. PLACE DECIMAL IN 2. FILL IN DECIMAL IN 3. FILL IN DECIMAL IN 4. FILL IN DECIMAL IN	MFG QTY SCALE	QUANTITY 07545 NONE	DWD NO. 647.9600 NONE	REV. N/C
	SHEET		2 OF 5	

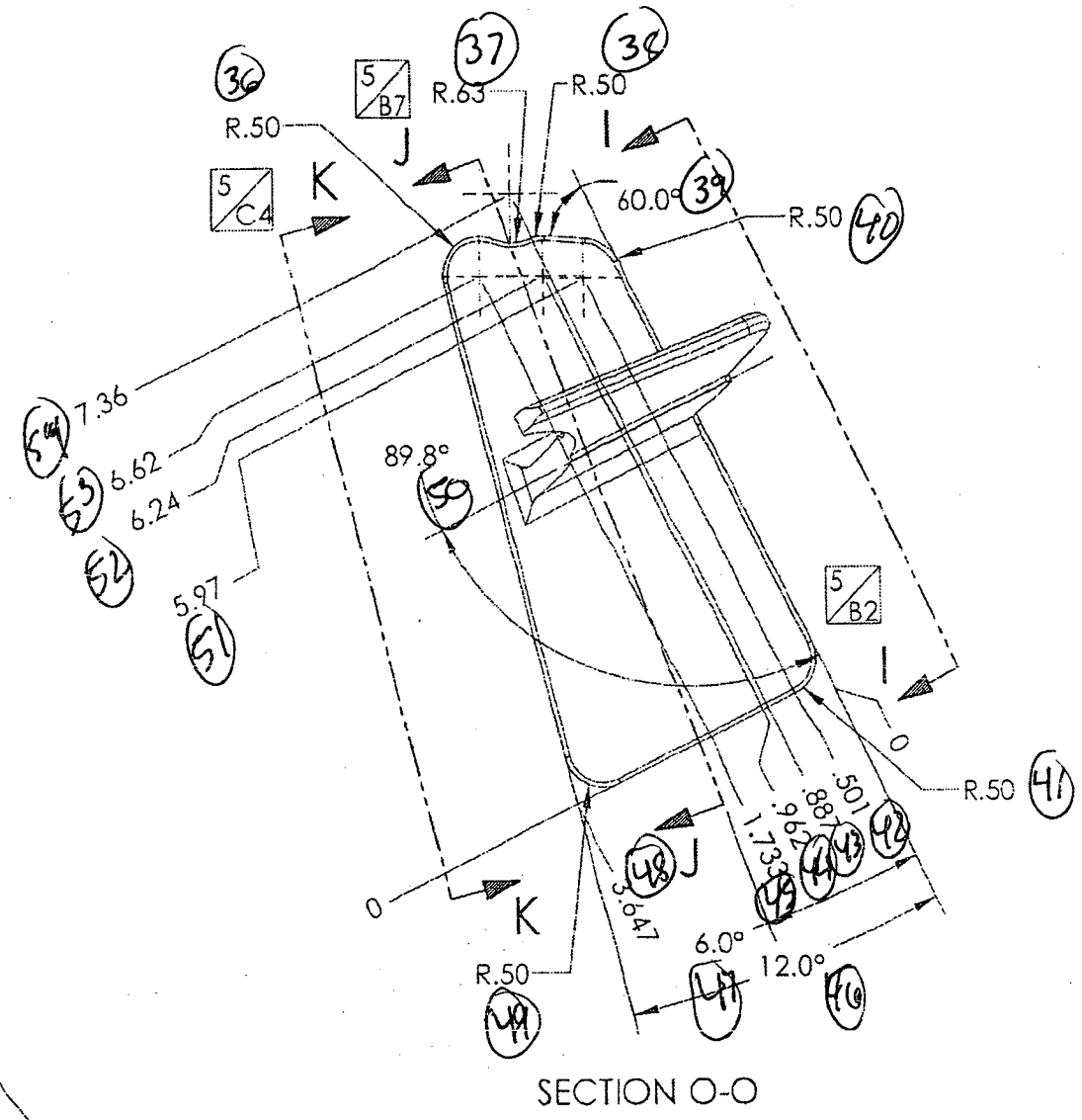
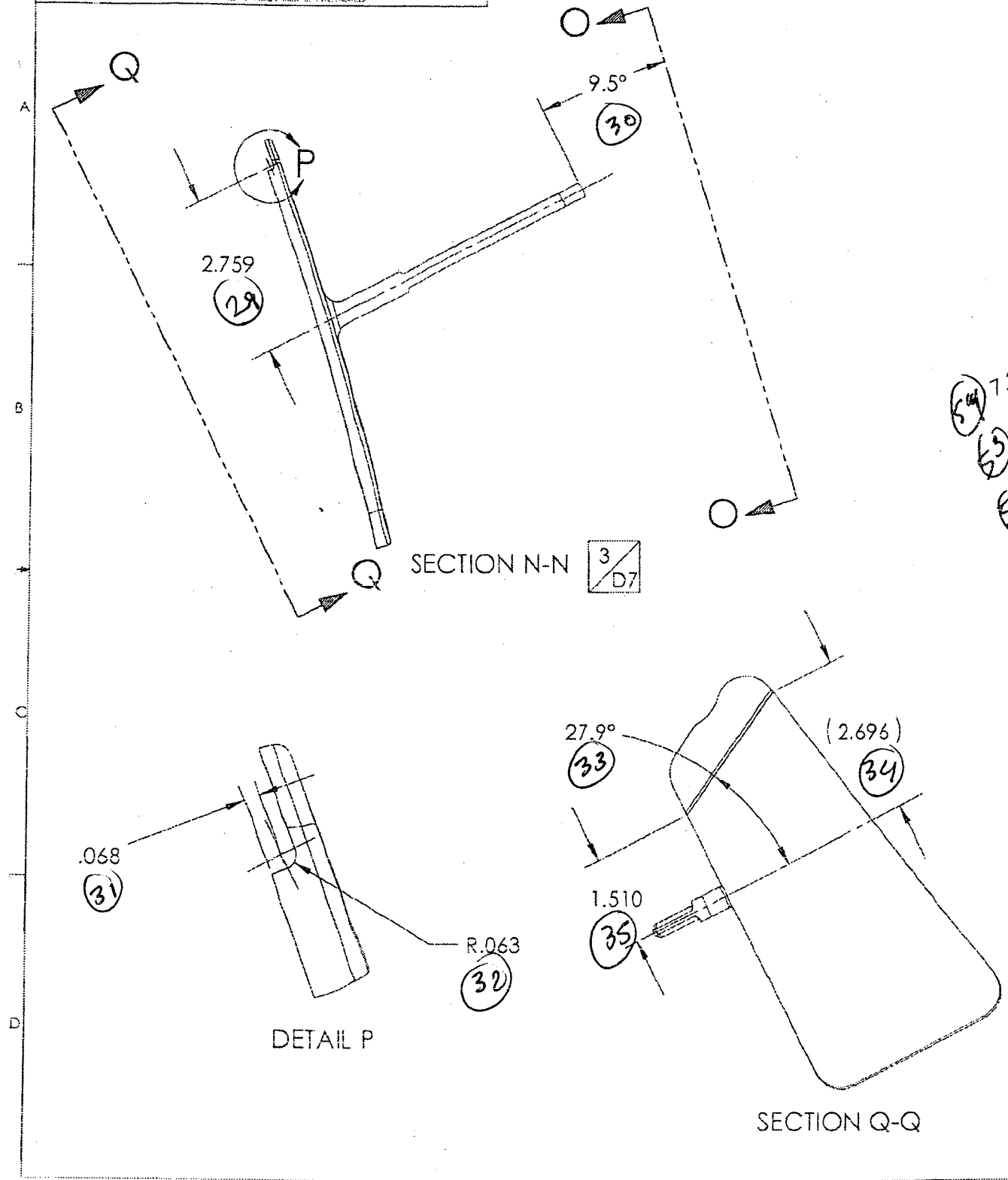
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APR 16/14

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REV.		DESCRIPTION	DATE	APPROVED

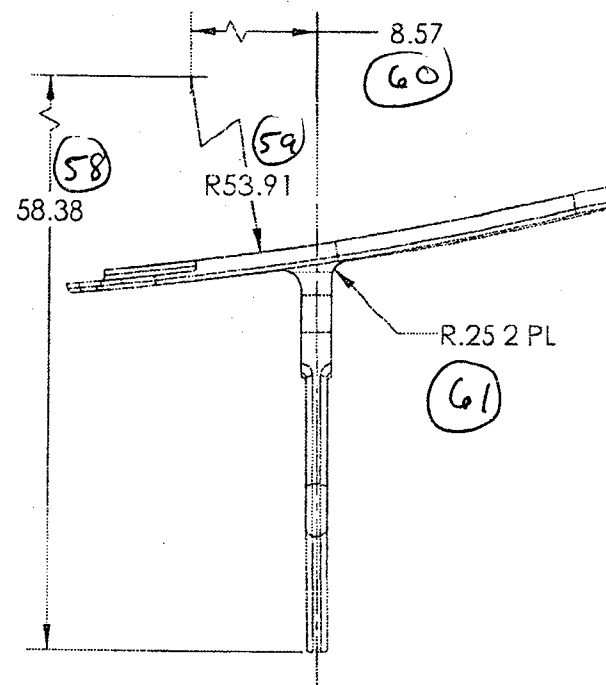


APICAL INDUSTRIES	
2608 TEMPLE HEIGHTS DR.	
OCEANSIDE, CA. 92056-3512 (760) 724-5300	
WIPER DEFLECTOR	
DATE CODE	DATE
B 07ME6	647.9600
SCALE: NONE	SHEET: 4 OF 5

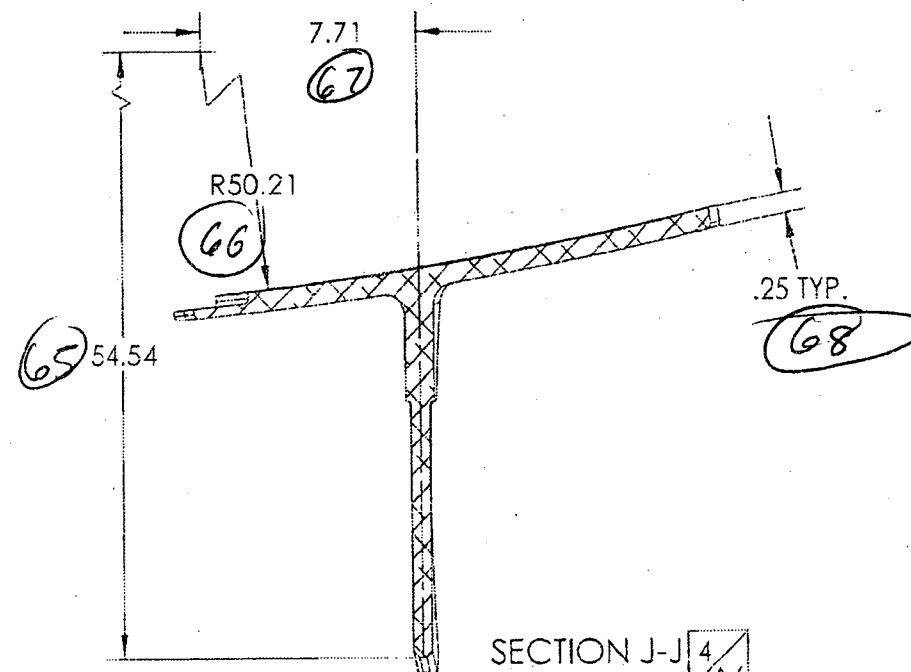
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APR 16/17

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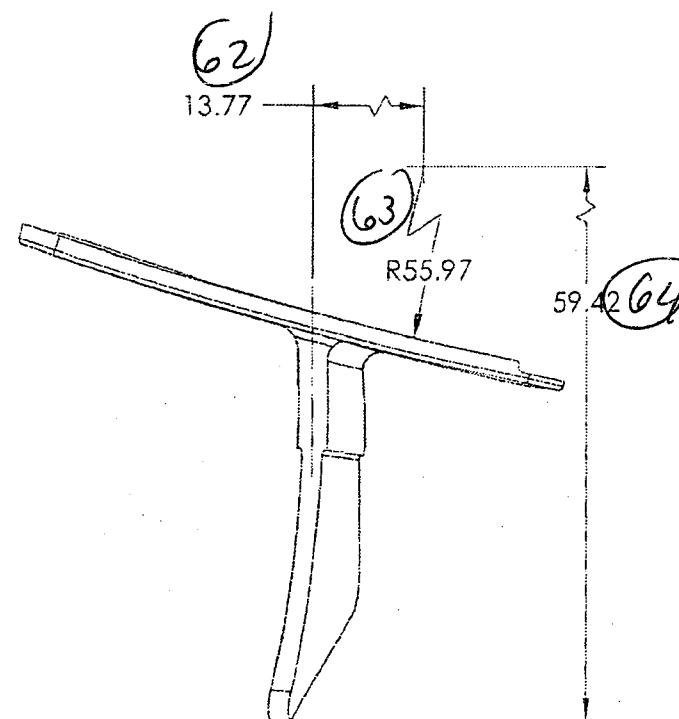
REV	DESCRIPTION	DATE	APPROVED



SECTION H-H 4/B7



SECTION J-J 4/A6



SECTION K-K 4/BS

ORIGINAL DATE	2014-07-10	APICAL INDUSTRIES	
DRAWN BY	C. HENDERSON	2608 TEMPLE HEIGHTS DR.	
CHECKED BY	P. BRADY	OCEANSIDE, CA 92056-3512 (760) 724-5300	
DESIGNED BY	P. BRADY	WIPER DEFLECTOR	
CONTRACT NO.			
APPROVED BY		SCALE	NONE
DATE		SHEET	5 OF 5

RECEIVED
APR 16/14